

L0316645095-B - Cook County
LINCOLN SMELTING & REFINING COMPANY
~~ILD0000000000~~ ILP000510108
HRS/SF

CERCLA

Pre-Cerclis Screening Action

US EPA RECORDS CENTER REGION 5

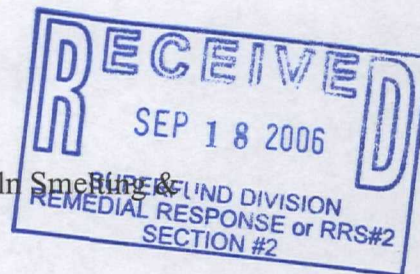


402793



Illinois Environmental
Protection Agency

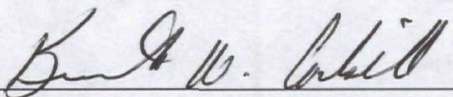
SIGNATURE PAGE



Title: CERCLA Pre-CERCLIS Screening Action for Lincoln Smelter & Refining Company

EPAID: ILP000510108

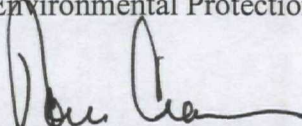
Preparer: Kenneth W. Corkill, Project Manager, Office of Site Evaluation, Illinois Environmental Protection Agency



Signature

9-11-06
Date

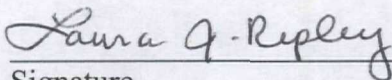
Reviewer: Tom Crause, Office Manager, Office of Site Evaluation, Illinois Environmental Protection Agency



Signature

9/12/06
Date

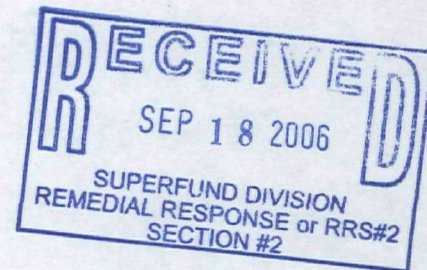
Approval: Laura J. Ripley, Environmental Scientist, United States Environmental Protection Agency, Region 5



Signature

09/27/2006
Date

The approval signatures on this page indicate that this document has been authorized for information release to the public through appropriate channels. No other forms or signatures are required to document this information release.



PRE-CERLIS SCREENING ASSESSMENT

for:

**LINCOLN SMELTING & REFINING COMPANY
CHICAGO, ILLINOIS**

ILD (PENDING)

**PREPARED BY:
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
BUREAU OF LAND
FEDERAL SITE REMEDIATION SECTION
SITE ASSESSMENT UNIT**

SEPTEMBER 3, 2006

PRE-CERCLIS SCREENING ASSESSMENT
LINCOLN SMELTING & REFINING COMPANY

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1.0 Introduction	1
Introduction	
2.0 Site Background	2
2.1 Site Description	2
2.2 Site History	4
3.0 Field Investigation Activities	7
3.1 Field Inspection.....	7
3.2 X-Ray Fluorescence (XRF) Survey	7
4.0 Migration Pathways	9
4.1 Groundwater	9
4.2 Surface Water	12
4.3 Soil Exposure	12
4.4 Air Route	13
5.0 References	14
* placed the PRE - CERCLIS Screening Assessment Checklist/Decision Form <i>LR Ripley 09/27/2006</i>	
Figures	
Figure 1	Site Location Map
Figure 2	Area Topographic Map
Figure 3	Site Area Map
Figure 4	5811 W. 66 th Street, 1938 Map
Figure 5	Lincoln Smelting & Refining Company Map
Photographs	5811 W. 66 th Street
APPENDIX A	Sanborn Fire Insurance Maps 1925 & 1950
Volume 2 (Under separate cover) <i>LR Ripley 09/27/2006</i>	
Quick Score <i>LR Ripley 09/27/2006</i>	
* - Pre-CERCLIS Screening Assessment Checklist/Decision Form	

1.0 INTRODUCTION

INTRODUCTION

On February 22, 2006, the Illinois Environmental Protection Agency's (IEPA) Office of Site Evaluation (OSE) was tasked by the U.S. Environmental Protection Agency (USEPA) Region V to conduct a Pre-CERCLIS Screening Assessment (PCS) of the former Lincoln Smelting & Refining Company facility located in Chicago, Illinois. The PCS was performed under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) commonly known as Superfund.

The Pre-CERCLIS Screening Assessment was designed to tentatively identify potential sources of contamination, and if present, determine if they pose the potential to adversely impact nearby residents, workers or the surrounding environment. If during the course of this investigation a determination is made that the site possesses the potential to significantly impact human health and/or the environment, the site will be entered into EPA's Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) and progress through the Superfund process. The PCS evaluation will also collect enough data to complete the Pre-CERCLIS Screening Assessment Checklist Form (under separate cover, Volume 2 Quick Score). IEPA's OSE conducted the Pre-CERCLIS investigation of the former Lincoln Smelting & Refining location as a result of a request by USEPA Region V to further investigate this site.

2.0 SITE BACKGROUND

2.1 SITE DESCRIPTION

On July 17, 2006 personnel from the Illinois Environmental Protection Agency's (IEPA) Office of Site Evaluation (OSE) conducted a Pre-CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Inventory System List) Screening Assessment reconnaissance and evaluation of the former Lincoln Smelting & Refining Company facility located in Chicago, Illinois. Lincoln Smelting & Refining Company is an inactive, metal producing operation formerly located at 5811 W. 66th Street, Chicago, Illinois, Township 38 North, Range 13 East, Section 20, Stickney Township, Cook County (see Figures 1 & 2). The former Lincoln Smelting & Refining facility was located on the southwest side of Chicago, in an industrial corridor (running east – west) five blocks south and two blocks west of the southwest corner of Chicago Midway Airport. Currently, a one and one-half story brick building is situated on the north one-third of the property, housing a small electronics/logistics company. The south two-thirds of the property is currently a soil, gravel, and asphalt lot where the electronics company parks its semi-trailer trucks. The former Lincoln Smelting & Refining facility occupied the south one-third of the property, located at the indicated address, at a date prior to the 1950's. According to a 1950 Sanborn Fire Insurance Map the former facility consisted of the melting room (the smelting operation) at the south end of the building, a connected warehouse to the north, and a receiving/shipping platform attached to the east side of the structure. At some point in the early 1960's, Lincoln Smelting & Refining ceased doing business. Based on United States Geological Survey (USGS) aerial photography from 1999 and 2002 the foundation of the business and the platform remained in place, the structure, however, had been razed. During a

May 2005 reconnaissance conducted by IEPA personnel, the foundation and platform were noted to be no longer present and that no surface evidence existed to indicate the footprint of the former structure. The building at the north end of the property appears not to have any connection to the former Lincoln Smelting & Refining operation. From what can be ascertained through examination of the Sanborn Maps the Lincoln Smelting & Refining building and property occupied approximately 17,000 square feet of the 47,000 total square feet of the rectangular shaped property associated with this address.

The subject property is situated in an urban setting within the City of Chicago. Bordering what formerly was the Lincoln Smelting & Refining building and property; on the north is the current logistics company and truck parking lot, beyond which is 66th Street and other industrial facilities and warehouses; on the south is the former 67th Street, beyond which is a railroad switch yard and industrial facilities and warehouses; on the east is a vacant lot, beyond which is S. Menard Avenue; and to the west is an active business and other industrial facilities and warehouses (Figure 3).

The terrain at the former facility and the immediate surrounding area is flat with limited numbers of trees, grass and bushes. Gravel, soil and asphalt are present throughout the entire property. The majority of the ground surface in the north third of the property is covered with asphalt and/or concrete. The majority of the surrounding industrial area, other than described above, is covered by concrete sidewalk and concrete or asphalt street.

The former Lincoln Smelting & Refining Co. facility property is situated in an area of mixed light industrial and residential neighborhoods. The closest residential dwellings are located approximately two blocks (0.25 miles) north of the former facility with additional

dwellings at various distances in all directions. No residential dwellings, schools or daycare facilities are within two hundred feet of the former facility. Within four miles of the property, land use consists primarily of residential and manufacturing/light industrial with some commercial/retail also scattered throughout. Three elementary schools are within one mile (5280 feet) of the property. One of those is within one-half mile (2640 feet), northeast of the property.

There are an estimate 1000 persons living within one-quarter mile of this site. 20,000 persons are estimated to live within one mile of the site, and 600,000 are estimated to live within four miles.

Access to this property may be gained from all sides except the west. The adjacent business prevents access along the entire west property perimeter. There are partial fences present along the south and east perimeter but these do not prevent access. There were no visible signs of staining or leakage from the former operations noted on the ground.

.The potential surface water runoff route for this property consists of runoff flowing onto the adjacent lot to the east, and then into city streets where curb storm drains direct flow into the City of Chicago sewer system. Runoff may also flow into a low area to the south of the facility. If runoff does not then flow from the low area to the city storm water system it would remain in the low area and either percolate into the soil or evaporate. Due to the site being flat with no discernable slope water may remain on site in pools until it either percolates into the soil or evaporates.

2.2 SITE HISTORY

During this investigation it was determined that there is limited information available

regarding the history of the Lincoln Smelting & Refining Company facility.

An investigation conducted at the State of Illinois Archives revealed no information on the company. There was no information on incorporation or dissolution of the company. A search of Sanborn Fire Insurance Maps (Appendix A), located at the Illinois State Library, indicated that, as of 1909, there were no structures located at 5811 W. 66th Street. No information has been found indicating when the Lincoln Smelting & Refining building was constructed or when the company began operating. A 1951, updated, Sanborn Map (Appendix A) indicated that the building was built on the south one-third of the 5811 W. 66th Street property as a separate stand alone structure from the building and business, Vitracel Corporation, located on the north one-third of the property (Figure 4). The interior of the Lincoln Smelting structure consisted of the smelting works, and a warehouse area. The Sanborn Maps did not indicate the number of smelting furnaces within the Lincoln Smelting structure. According to a Metal Industry Directory; the Standard Metal Directory 1940 Edition, the Lincoln Smelting & Refining Company was not listed under any category. According to the Standard Metal Directory 1963 – 1964 Edition, the Lincoln Smelting & Refining Company was classified as a zinc smelter; smelter of secondary lead, tin, babbitt and solder; and a wholesale dealer that specialized in scrap metal (Figure 4). Material listed as produced were babbitt, solder, lead, tin, zinc, and die cast metal. To produce these metals the process consumed a variety of scrap; bell metal, die cast scrap, metal clippings, castings and turnings, and wire. No known metal fabrication processes were carried out at this facility.

The Cook County Recorder of Deeds record books contained ownership history for this address beginning April 2, 1914. The following is a list of owners' names and registered

starting date of ownership: Rubbertex Cloth and Paper Co. 4-2-14, Ransom Concrete Machinery 3-4-18, National Oxygen Co. 3-31-19, National Cylinder Gas Co. 6-7-35, Wilson and Bennett Mfg. 11-3-37, Inland Steel Co. 6-9-53, LaSalle National Bank 3-16-64, James London 12-21-66, Commercial Stamping and Forging Inc. 1-24-67, Exchange National Bank 11-6-75. The name Lincoln Smelting & Refining did not appear in the Recorder of Deeds books. At this writing, the Cook County Assessors office indicates that all property taxes have been paid.

3.0 FIELD INVESTIGATION ACTIVITIES

3.1 FIELD INSPECTION

A CERCLA pre-remedial site reconnaissance was conducted on July 17, 2006, by personnel of the Office of Site Evaluation (OSE) of the Illinois Environmental Protection Agency (IEPA). A site reconnaissance of the former Lincoln Smelting & Refining Co. property and the surrounding area was conducted to determine the physical property boundaries and survey the properties at its perimeters. The survey of the surrounding area was done to determine land usage of the neighboring properties as well as any pathway or receptors that potentially may be affected by the site. As mentioned, the site was observed to be flat, with very little vegetation present. Gravel, soil and asphalt are present throughout the entire property. The majority of the ground surface in the north third of the property is covered with asphalt and/or concrete. The majority of the surrounding industrial area, other than described above, is covered by concrete sidewalk and concrete or asphalt driveways and streets. Due to the former Lincoln Smelting & Refining building having been razed, no direct observation of the structure could be made (Figure 5). Also mentioned previously, the property is accessible to the public. However, there does not appear to be any recreational draw to the property and the property is not located between a school and a neighborhood where students would be able to cut across the property and potentially be exposed to airborne dust, etc. There was no general refuse observed on the property.

3.2 X-RAY FLUORESCENCE (XRF)

One of the purposes of the site reconnaissance and investigation, conducted by personnel

of the IEPA Office of Site Evaluation on July 17, 2006, was to collect field based soil data with a Niton 700 Series XRF unit. A variety of inorganic analytes can be detected through use of the XRF. The analyte of concern at this location was lead due to the former operation of the lead smelter. Twelve soil locations on the south two thirds of the 5811 W. 66th St address were analyzed with the XRF (indicated below as XRF Readings 17 – 28). The analysis was completed insitu on soil in what is now parking lot for the previously mentioned semi-trailers, and on soil in areas which was formerly the location of the Lincoln Smelting structure and loading platform. The XRF locations were established in an informal grid pattern (Figure 5). Lead and zinc readings were of primary concern due to the nature of the Lincoln Smelting & Refining operation. Of the twelve locations analyzed six indicated lead levels between 107 parts per million (ppm) and 218 ppm., five indicated lead levels ranging between 403 ppm and 781 ppm, and one indicated a lead level of 1000 ppm. Zinc was indicated at two locations at levels of 13,000 ppm and 42,000 ppm.

XRF Reading Number	Analyte	
	Pb	Zn
17	107	
18	403	
19	1000	42,000
20	445	13,000
21	218	
22	209	
23	210	
24	781	
25	123	
26	108	
27	720	
28	643	

4.0 INITIAL PATHWAY ANALYSIS

4.1 GROUNDWATER

The soil survey for Cook County defines the entire area of and around the property as urban land. Urban land consists of built up and/or filled areas and deep, level, poorly drained soils that have a silty, loamy, clayey subsoil. In this instance the north one-third of the property at 5811 W. 66th St. being evaluated is covered by a building, asphalt and concrete. The south two-thirds is covered mainly by soil and gravel, with a small amount of broken asphalt also present. The site lies within an area underlain by Pleistocene Age glacial/lacustrine deposits. The natural surficial geology beneath the site is composed of quiet water and near shore sediments deposited by former Lake Chicago. These sediments are dominated by well bedded silt and some clay. These sediments are identified as the Carmi Member of the Equality Formation. The Carmi Member is associated with the Wisconsin Stage of glaciation. Beneath the Carmi Member (clay with silt and sand lenses) is the Wadsworth Member, a clayey glacial till which extends to the bedrock surface. The bedrock in the vicinity of the site is a Niagaran group dolomitic limestone of Silurian Age. The top of the bedrock within a four mile radius of the Lincoln Smelting & Refining property is estimated to range between depths of approximately 45 - 65 feet below ground surface.

Beneath the surface soil is natural, soft to very stiff clay and loose to medium dense silt and clayey silt with some intermittent stringers of fine to coarse sand and some fine gravel, which represent lake bottom deposits. These deposits are approximately 15 to 30 feet thick in the area near the property. Beneath the Carmi Member is the Wadsworth Member consisting of very

stiff to hard silty or sandy clay and hardpan soils. These clay strata are typically interbedded with silt and sand layers or lenses. The Wadsworth Till is approximately 45 to 55 feet thick beneath the property. Groundwater occurrences within the Pleistocene deposits (Wadsworth Till) of the area are typically observed within localized sand and/or silt lenses. Due to poor yield and quality, the water is generally not considered for potable use. There can be adequate groundwater reserves within the Silurian (System) dolomite and it is considered to be the primary aquifer in the region, however, it is not widely used in the immediate area as drinking water is provided by the City of Chicago with water drawn from Lake Michigan. The Illinois State Geological Survey (ISGS) and the Illinois State Water Survey (ISWS), do however, indicate that approximately 180 private drinking water wells existed or still exist within a four mile radius around the Lincoln Smelting property. Approximately 90% of the wells on record were drilled during the 1920's through the 1940's. It is not known how many of the recorded wells are currently in use. Seven of the recorded wells are listed as utilizing the shallow sand and gravel aquifer. These wells range in depth from 32 feet to 76 feet below ground surface. ISGS and ISWS information does not indicate the static water levels in the wells. The other 173 wells within four miles of the property are listed as screened in or draw water from immediately beneath the Wadsworth Till in the upper portions of the Niagaran Series formation (dolomite) of the Silurian System. The total depth of the bedrock wells have been recorded between 50 feet to 400 feet below ground surface. Groundwater flow in this particular portion of the bedrock aquifer trends north-northwest following the north-northwest dip of the beds of dolomite of approximately 25 feet per mile as indicated by the Illinois State Geological Survey Bulletin 73

Plate 1.

After reviewing the geology, groundwater usage of the area, and the Groundwater Quality Standards (35 IL Adm. Code Part 620), the groundwater beneath this property can be classified as Class II groundwater. The determination was based on the following: no potable water supply wells are within the minimum setback zone, no sandstone greater than 10 feet thick or fractured carbonate greater than 15 feet thick exists, and 99% of all water within the Chicago distribution area is supplied by the City of Chicago with water from Lake Michigan.

According to the United States Geological Survey Source Water Assessment Program there are 26 community water systems and 79 non-community and industrial groundwater wells and/or distribution systems located in Cook County. None of these systems falls within a four mile radius of the former Lincoln Smelting & Refining Company. Two of the closest private wells to the site use the Silurian limestone/dolomite bedrock aquifer. According to ISWS well logs, one is approximately 2000 feet (0.38 miles) north of the property and is 129 feet in depth. The other is located approximately 7600 feet (1 ½ miles) south of the property and is 200 feet deep. All seven sand and gravel wells are located three or more miles from the property. Potential for contamination to these wells, as a result of former smelting activity at this facility, is remote due to the site characteristics, geology, and distance from the facility.

Based on information obtained and presented above, the Glacial Drift and Silurian Dolomite aquifers are considered to be interconnected and are the aquifers of concern in the area surrounding the site. Since the Maquoketa Group is a confining layer beneath the Silurian Dolomite the Cambrian-Ordovician aquifer would not be considered a concern for potential

contaminant intrusion. Groundwater in the aquifers of concern has been encountered at depths between approximately 50 to 90 feet. Groundwater flow direction in the glacial drift aquifer has not been determined at this time.

4.2 SURFACE WATER

The surface water runoff from this property accumulates from building roof drains (on the building on the north third of the property) and excess moisture runoff from the soil, asphalt, concrete sidewalks and roadways. The surface water runoff route is via city streets where street curb and gutter systems direct flow into storm drains and into the City of Chicago sewer system. According to USGS topographic maps, the Illinois and Michigan Canal, the Chicago Sanitary and Ship Canal, and the Des Plaines River are within 3.0 – 3.25 miles northwest of the Lincoln Smelting property. There are no runoff routes from the Lincoln Smelting property to any of these water bodies. It does not appear that a release to the surface water pathway is a concern associated with this site. A review of a Federal Emergency Management Agency map for incorporated areas of Cook County indicates that the facility is located outside of the 100 year floodplain.

4.3 SOIL EXPOSURE

Based upon information gathered during the July 17, 2006 Pre-CERCLIS Screening Assessment, the soil exposure pathway associated with the former Lincoln Smelting facility does not appear to be a primary concern. The facility is located in an urban setting of mixed light

industrial and residential properties. With numerous other industrial entities in the surrounding area, singling out this particular facility as a contaminant source would be unrealistic. Portions of the site itself are covered with the building housing an operating business (north), asphalt and concrete sidewalks, driveways, and roadways (north) and asphalt and concrete in portions of the truck lot (south). Based on the intent and limited scope of work of the Pre-CERCLIS Screening Assessment, residential and other industrial properties within one-quarter mile of the former facility were not evaluated during this investigation.

4.4 AIR ROUTE

During the July 17, 2006 reconnaissance and investigation a Foxboro Toxic Vapor Analyzer (TVA) was utilized to screen ambient air around the facility, air in the breathing zone, and air around the building. All readings registered at background levels of approximately 2.5 units. There are no records, reports or complaints on file of air releases from the facility or odors emanating from the site. As mentioned previously, the facility has various types of site cover on some portions of the property that prevents airborne migration of windblown particulates. Bare soil on the southern portion of the property does allow airborne migration of windblown particulates. However, due to the site characteristics, XRF results, and surrounding environment the potential for airborne particulates to be released via the air pathway is present, but not considered to be hazardous to human health or the environment.

5.0 REFERENCES

Bureau of the Census, County and City Data Book, 1990 U.S. Census Data.

Cook County Assessors Office, 118 N. Clark St., Chicago, Illinois

Cook County Recorder of Deeds, 118 N. Clark St., Room 120, Chicago, Illinois

Illinois State Geological Survey, Bedrock Surface of Illinois, Second Edition 1957

Rockford Map Publishers, 1996, Land Atlas and Plat Book, Cook County, Illinois.

State of Illinois, Department of Energy and Natural Resources, 1963, Photorevised 1972 and 1980, Englewood, Illinois, 7.5 Minute Topographic Map.

State of Illinois, Department of Energy and Natural Resources, 1963, Photorevised 1973, Photoinspected 1978, Blue Island, Illinois, 7.5 Minute Topographic Map.

State of Illinois, Department of Energy and Natural Resources, 1963, Photorevised 1973 and 1980, Palos Park, Illinois, 7.5 Minute Topographic Map.

State of Illinois, Department of Energy and Natural Resources, 1963, Photorevised 1972 and 1980, Berwyn, Illinois, 7.5 Minute Topographic Map.

**PRE-CERCLIS SCREENING ASSESSMENT
CHECKLIST/DECISION FORM**

PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

This checklist can assist the site investigator during the Pre-CERCLIS screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets for the narrative.

Checklist Preparer:

KENNETH W. CORKILL EPS.III
(Name/Title)

8-20-06
(Date)

1021 N. GRAND AVE. EAST, SPRINGFIELD, IL
(Address)

217-524-1664
(Phone)

Ken.corkill@epa.state.il.us
(E-Mail Address)

Site Name:

LINCOLN SMELTING & REFINING COMPANY

Previous Names (if any):

Site Location:

5811 W. 66TH ST.
(Street)

CHICAGO
(City)

COOK
(County)

IL
(ST)

60638 - 6203
(Zip)

03
(Congressional District)

Reply 09/27/2006

Latitude: 41.46340

Longitude: -87.45998

With regards to the Latitude and Longitude, please provide the following information: Accuracy in Meters +/-, Collection Method, Reference Datum, Reference Point, Source Map Scale, Point/Line/Area; Collection Date; Verification Method (see attached): Collection method: ADDRESS MATCHING - HOUSE NUMBER

Complete the following checklist. If "yes" is marked, please explain below.

	YES	NO
1. Does the site already appear in CERCLIS?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance releases have occurred, EPA approved risk assessment completed)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is there documentation indicating that a target (e.g., drinking water wells, drinking surface water intakes, etc.) has been exposed to a hazardous substance released from the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Is there an apparent release at the site with no documentation of exposed targets, but there are targets on-site or immediately adjacent to the site or nearby (within 1 mile)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Are there no releases or potential to release?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please explain all "yes" answer(s), attach additional sheets or refer to narrative:

- Site Determination: ☐ Enter the site into CERCLIS. Further assessment is recommended (explain below).
- ☒ The site is not recommended for placement into CERCLIS (explain below).

DECISION/DISCUSSION/RATIONALE:

IEPA recommends that the Lincoln Smelting & Refining Company site (ILD Pending) not be placed on CERCLIS at this time. The recommendation is a direct result of the Pre-CERCLIS Screening (PCS) Assessment investigation conducted at the property on July 17, 2006. The investigation included observation of the immediate site and surrounding area along with collection of XRF soil samples throughout the Lincoln Smelting facility. There is a currently operating business on the north portion of the 5811 W. 66th Street property. The south portion of the address is the former location of the Lincoln Smelting & Refining Company. The ground surface of the north portion of the property is covered by the current building and a combination of asphalt and concrete driveway, sidewalk and roadway. The ground surface on the south portion of the property is currently bare soil, gravel, limited asphalt and concrete paving, and possibly remnants of concrete foundation from the Lincoln Smelting structure. XRF soil samples indicate lead (107ppm – 1000ppm) and zinc (13,000ppm & 42,000ppm) concentrations below USEPA Removal Action Levels (RAL's). Although the property is accessible to the public, being situated in a light industrial corridor prevents most nearby residents from easy access to the site. There does not appear to be any recreational draw to the property and the property is not located between a school and a neighborhood where students would be able to cut across the property and potentially be exposed to airborne dust, etc.

EPA Regional Review and Site Assessment Decision

Check the box(es) that apply:

- ☒ Not a Valid Site or Incident
- ☐ Incident for Further Action Under CERCLA

Recommended Further Action:

- ☐ APA
- ☐ Full PA
- ☐ Combined PA/SI
- ☐ SI

Defer/Refer to:

- ☐ Removal Program
- ☐ State/Tribal Program
- ☐ RCRA
- ☐ Brownfields
- ☐ Other: _____

Regional EPA Reviewer:

LAURA RIPLEY / Laura Q. Ripley
Print Name/Signature

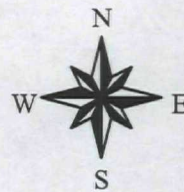
09/27/2006
Date

State Agency/Tribe:

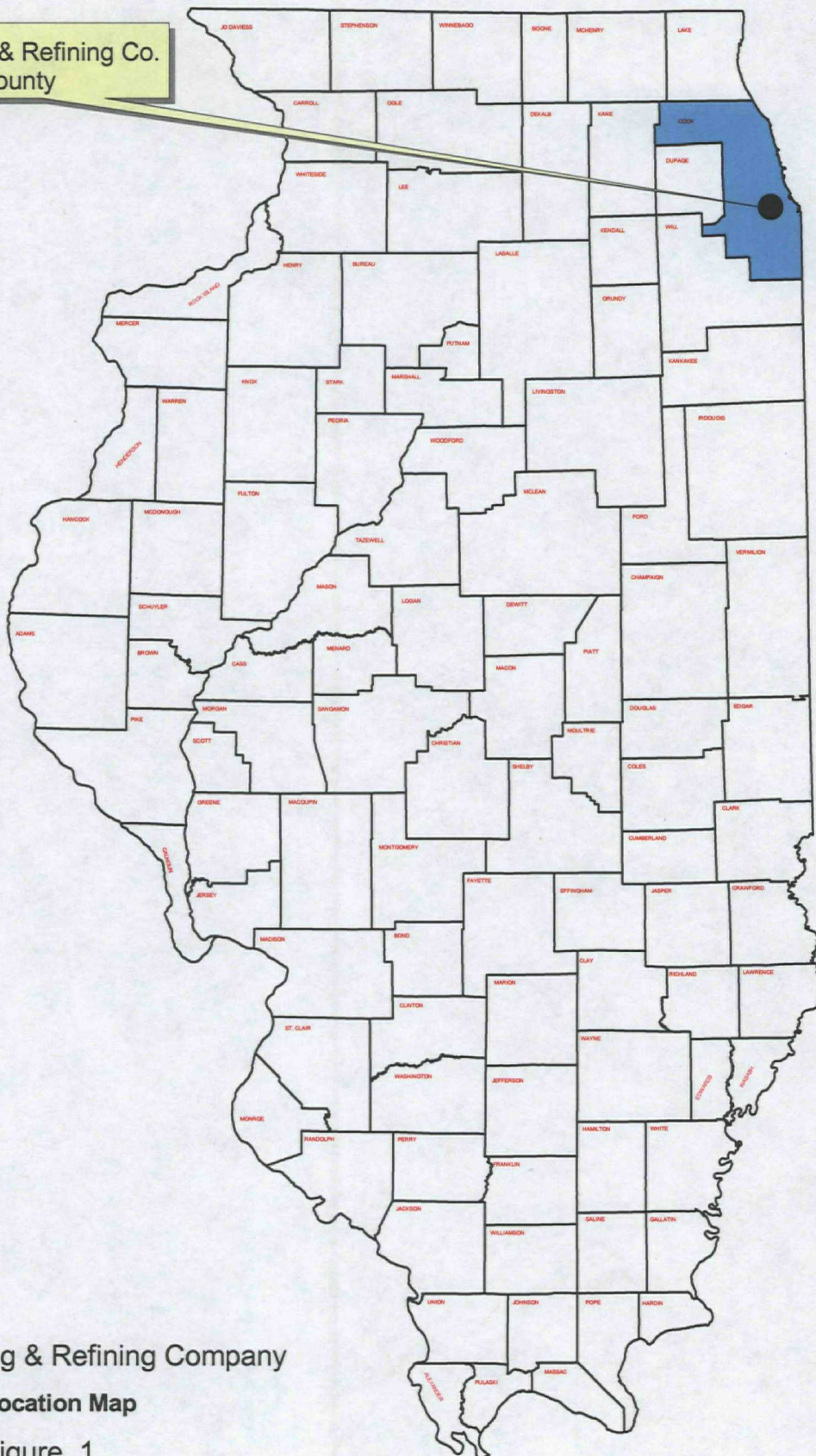
KENNETH W. CORKILL / Kenneth W. Corkill
Print Name/Signature

8-21-06
Date

FIGURES



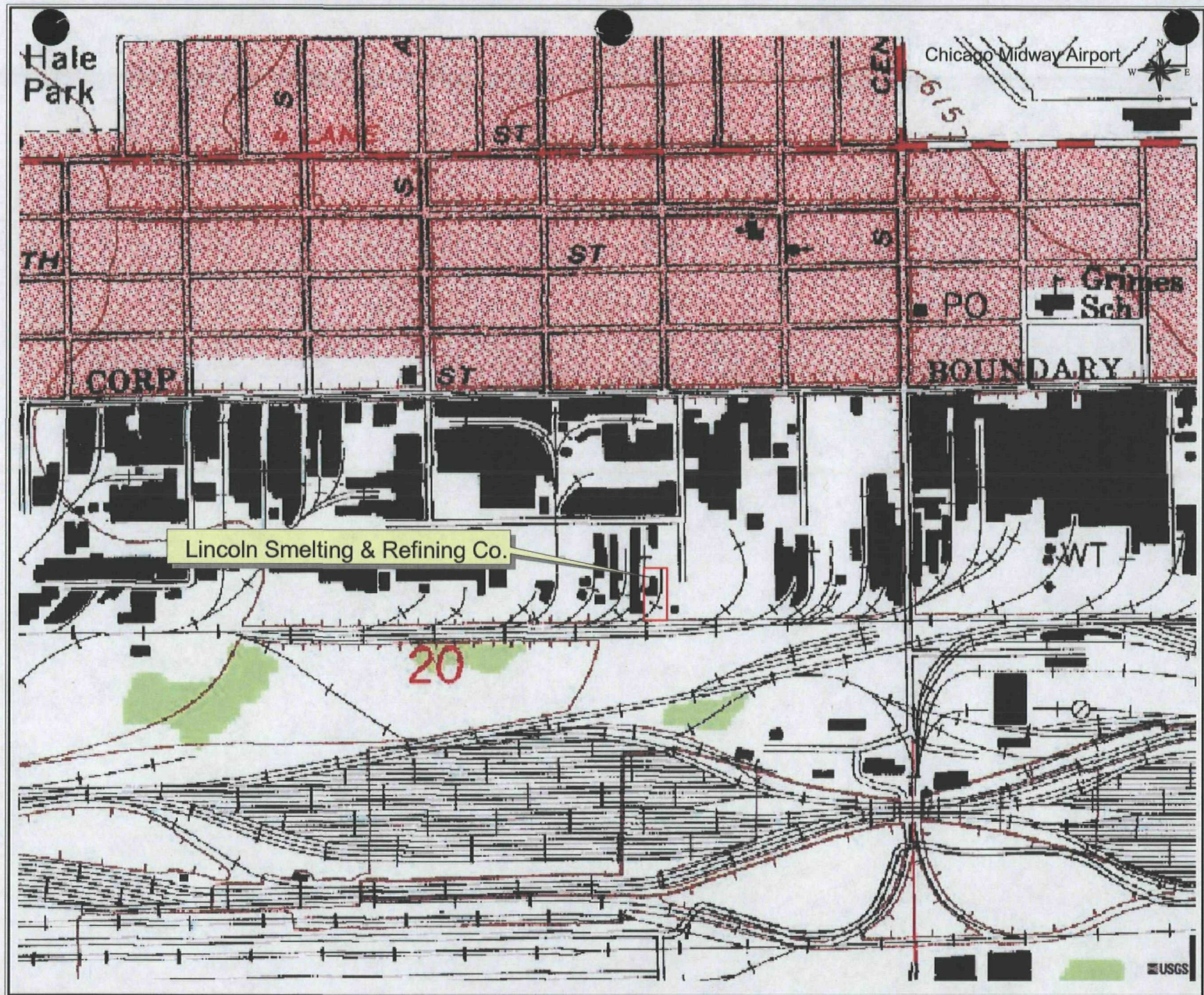
Lincoln Smelting & Refining Co.
Cook County



Lincoln Smelting & Refining Company

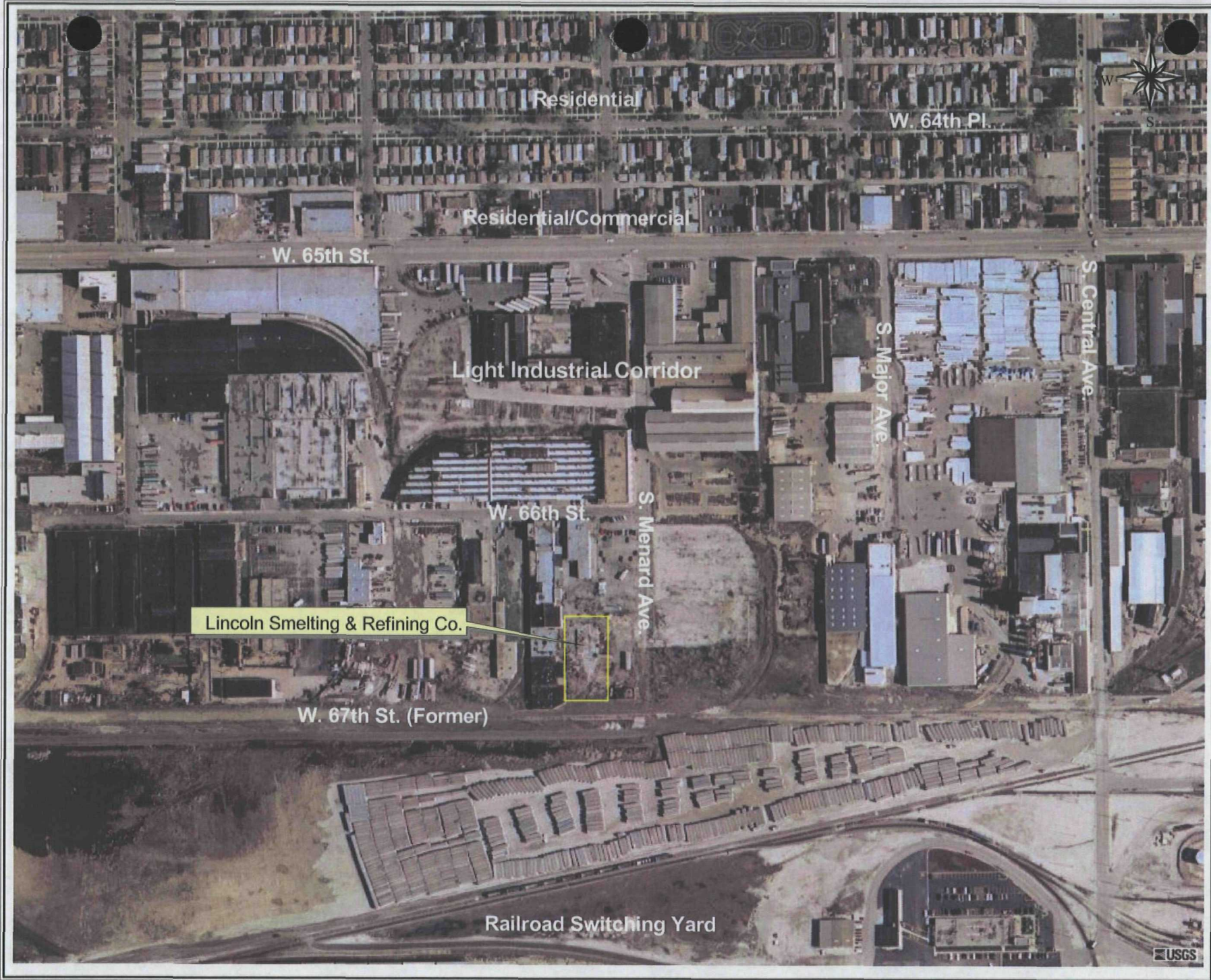
Site Location Map

Figure 1



USGS & ISGS 1981

Lincoln Smelting & Refining
Area Topographic Map
Figure 2

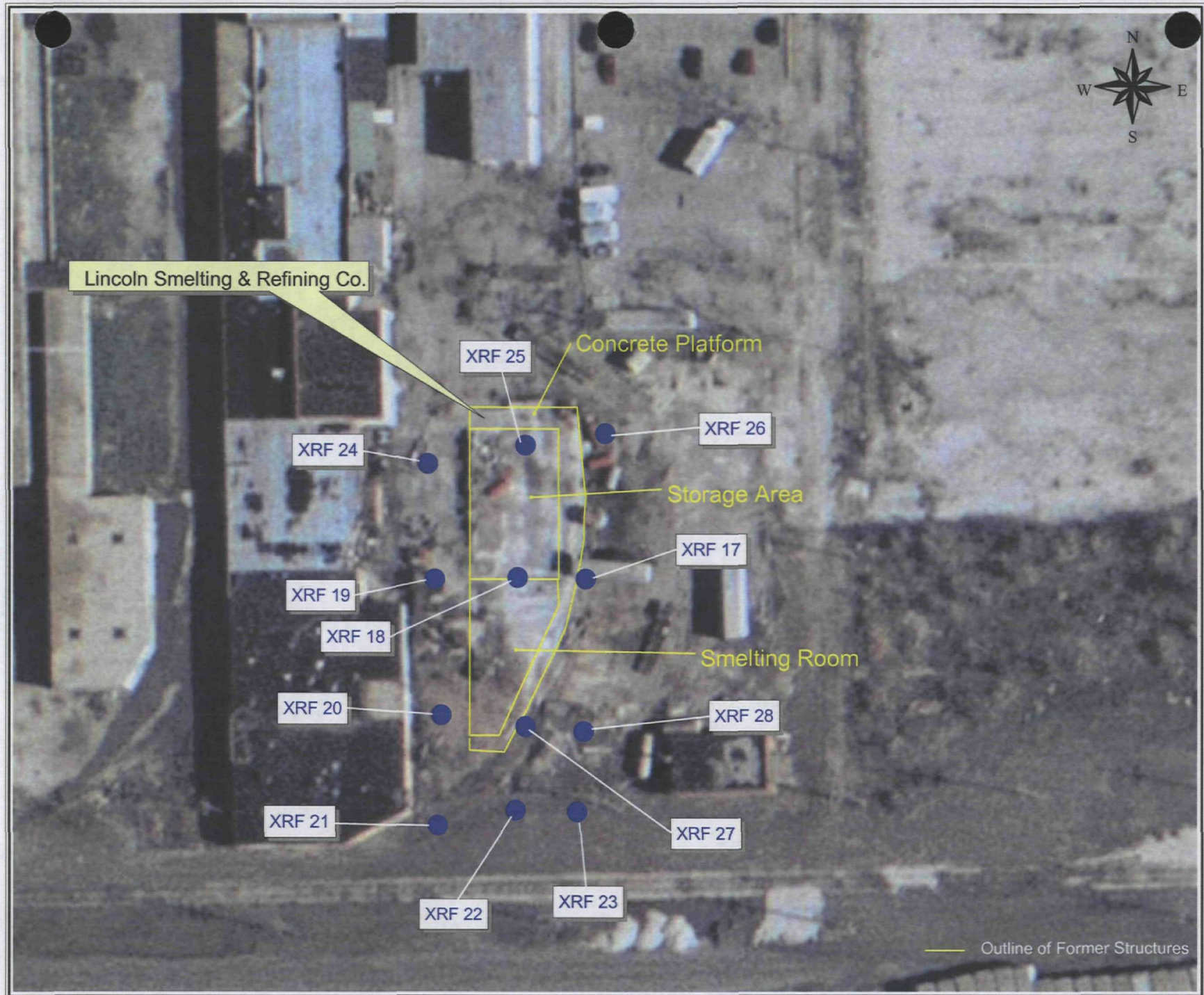


USGS 4-10-02

Lincoln Smelting & Refining Co.
Site Area Map
Figure 3



5811 W. 66th Street
Aerial Photograph 11-29-39
Figure 4



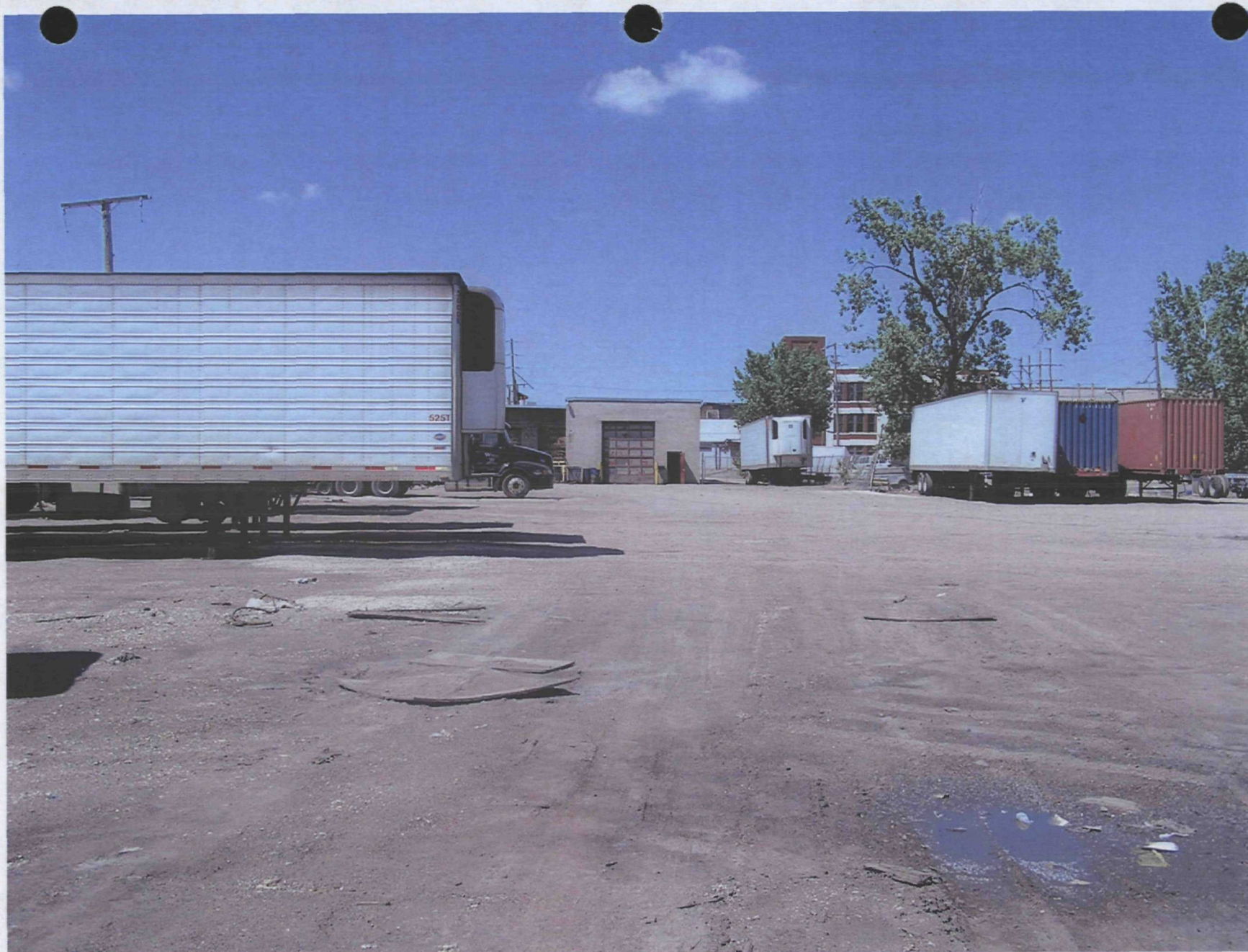
USGS 4-10-02

Lincoln Smelting & Refining Co.
and
XRF Locations

Figure 5

PHOTOGRAPHS

Site Photographs
5811 W. 66th Street



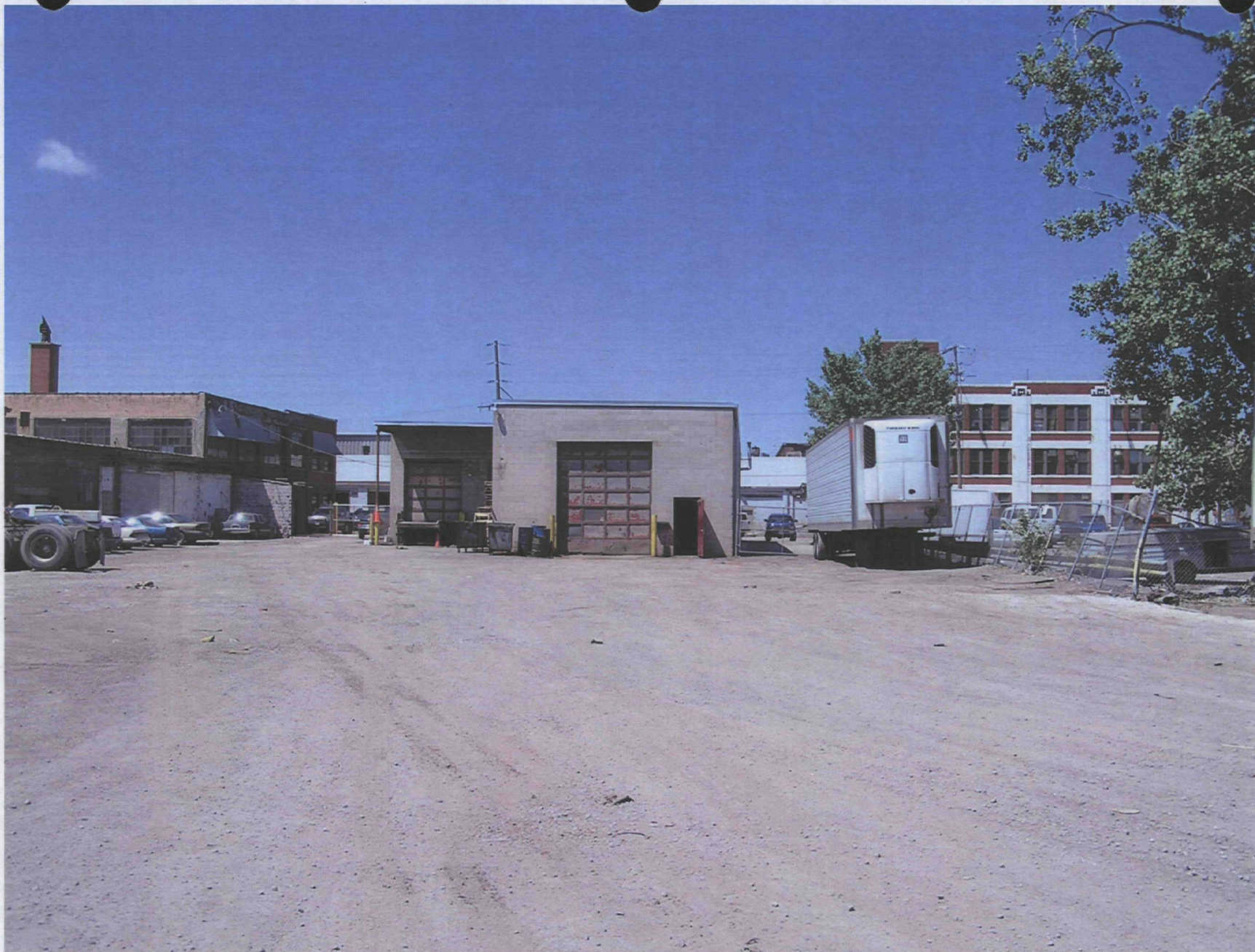
IEPA 5-24-05

Photo of rear lot of 5811 W. 66th St.
Former Lincoln Smelting & Refining property.
Photo taken from south perimeter toward the north.



IEPA 5-24-05

Photo of rear of 5811 W. 66th St.
Former Lincoln Smelting & Refining property.
Photo taken from near southwest corner of property toward the northeast.



IEPA 5-24-05

Photo of rear lot of 5811 W. 66th St.
Former Lincoln Smelting & Refining Property.
Photo taken from center of former Lincoln Smelting structure toward north.

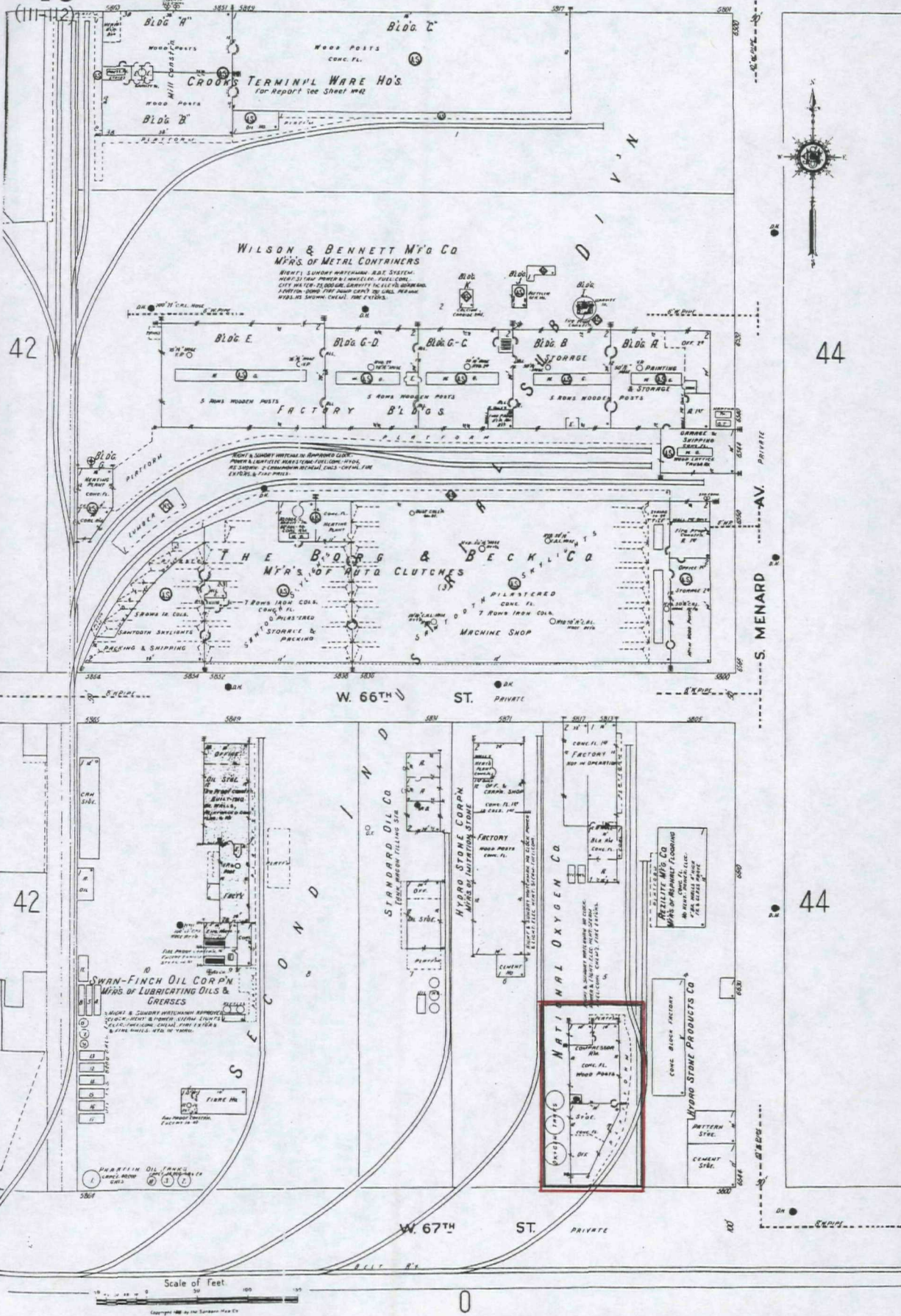


IEPA 5-24-05

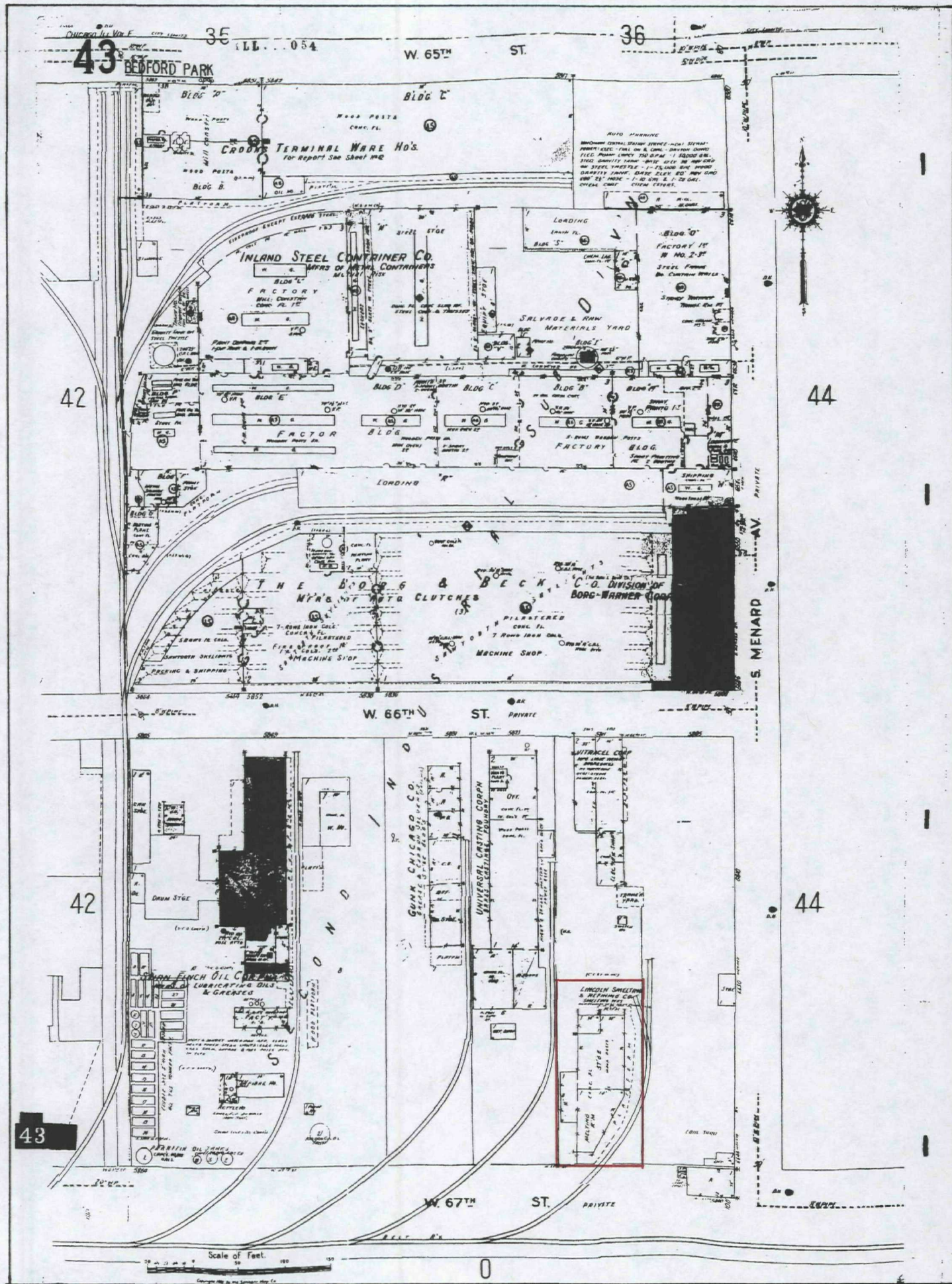
Photo of rear of 5811 W. 66th St.
Former Lincoln Smelting & Refining property.
Photo taken from approximate center of former Lincoln Smelting structure toward south property perimeter.

APPENDIX A

Sanborn Fire Insurance Maps
1925 & 1950



1925 Sanborn Fire Insurance Map
5811 W. 66th Street, Chicago, IL.



1950 Sanborn Fire Insurance Map
5811 W. 66th Street, Chicago, IL.